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LOGINID: ssspta1201txs

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 FEB 25 CA/CAPLUS - Russian Agency for Patents and Trademarks
(ROSPATENT) added to list of core patent offices covered
NEWS 4 FEB 28 PATDPAFULL - New display fields provide for legal status
data from INPADOC
```

NEWS 5 FEB 28 BABS - Current-awareness alerts (SDIs) available

NEWS 6 FEB 28 MEDLINE/LMEDLINE reloaded

NEWS 7 MAR 02 GBFULL: New full-text patent database on STN

NEWS 8 MAR 03 REGISTRY/ZREGISTRY - Sequence annotations enhanced

NEWS 9 MAR 03 MEDLINE file segment of TOXCENTER reloaded

NEWS 10 MAR 22 KOREAPAT now updated monthly; patent information enhanced

NEWS 11 MAR 22 Original IDE display format returns to REGISTRY/ZREGISTRY

NEWS 12 MAR 22 PATDPASPC - New patent database available

NEWS 13 MAR 22 REGISTRY/ZREGISTRY enhanced with experimental property tags

NEWS 14 APR 04 EPFULL enhanced with additional patent information and new fields

NEWS 15 APR 04 EMBASE - Database reloaded and enhanced

NEWS EXPRESS JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

```
NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)
```

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FILE 'HOME' ENTERED AT 19:08:48 ON 15 APR 2005

=> file reg

COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 0.21 0.21

FULL ESTIMATED COST

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STRUCTURE FILE UPDATES: 14 APR 2005 HIGHEST RN 848555-82-8 DICTIONARY FILE UPDATES: 14 APR 2005 HIGHEST RN 848555-82-8

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

Uploading C:\Program Files\Stnexp\Oueries\10657033.str

chain nodes : $6 \quad 7 \quad 8 \quad 11 \quad 18 \quad 19 \quad 20 \quad 21 \quad 28 \quad 29 \quad 30 \quad 31 \quad 32$ ring nodes : 1 2 3 4 5 12 13 14 15 16 17 22 23 24 25 26 27 chain bonds : 2-30 3-11 4-6 5-32 6-7 7-8 8-12 11-22 15-18 18-19 18-20 18-21 24-29 26-28 30-31 ring bonds : 1-2 1-5 2-3 3-4 4-5 12-13 12-17 13-14 14-15 15-16 16-17 22-23 22-27 23-24 24-25 25-26 26-27 exact/norm bonds : 1-2 1-5 2-3 3-4 3-11 4-5 7-8 8-12 11-22 15-18 18-19 18-20 exact bonds : 2-30 4-6 5-32 6-7 18-21 24-29 26-28 30-31 normalized bonds : 12-13 12-17 13-14 14-15 15-16 16-17 22-23 22-27 23-24 24-25 25-26 26-27

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 11:CLASS 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS 19:CLASS 20:CLASS 21:CLASS 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:CLASS 29:CLASS 30:CLASS 31:CLASS 32:CLASS

L1 STRUCTURE UPLOADED

=> s l1

SAMPLE SEARCH INITIATED 19:09:20 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

ONLINE **COMPLETE** FULL FILE PROJECTIONS:

> BATCH **COMPLETE**

PROJECTED ITERATIONS:

0 TO

PROJECTED ANSWERS:

0 TO

0 SEA SSS SAM L1

=> s 11 ful

FULL SEARCH INITIATED 19:09:27 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED -

100.0% PROCESSED

3 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

L3

1 SEA SSS FUL L1

=> d 13 ibib hitstr abs

- 'IBIB' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'
- 'HITSTR' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'
- 'ABS' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats (RN = CAS Registry Number)

REG

- Index Name, MF, and structure - no RN SAM - All substance data, except sequence data FIDE

- FIDE, but only 50 names SQIDE - IDE, plus sequence data

SQIDE3 - Same as SQIDE, but 3-letter amino acid codes are used

- Protein sequence data, includes RN SOD

- Same as SQD, but 3-letter amino acid codes are used SQD3

- Protein sequence name information, includes RN SON

- Table of calculated properties EPROP - Table of experimental properties

PROP - EPROP and CALC

Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be cited first. The CA File predefined formats are:

ABS -- Abstract

APPS -- Application and Priority Information

BIB -- CA Accession Number, plus Bibliographic Data

CAN -- CA Accession Number

CBIB -- CA Accession Number, plus Bibliographic Data (compressed)

IND -- Index Data

IPC -- International Patent Classification

PATS -- PI, SO

STD -- BIB, IPC, and NCL

IABS -- ABS, indented, with text labels IBIB -- BIB, indented, with text labels

ISTD -- STD format, indented

OBIB ----- AN, plus Bibliographic Data (original)

OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations SIBIB ----- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.

The MAX format is the same as ALL.

The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

For additional information, please consult the following help messages:

HELP DFIELDS -- To see a complete list of individual display fields. HELP FORMATS -- To see detailed descriptions of the predefined formats. ENTER DISPLAY FORMAT (IDE):0 '0' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats are: (RN = CAS Registry Number)

REG - RN

SAM - Index Name, MF, and structure - no RN FIDE - All substance data, except sequence data

IDE - FIDE, but only 50 names SQIDE - IDE, plus sequence data

SQIDE3 - Same as SQIDE, but 3-letter amino acid codes are used

SQD - Protein sequence data, includes RN

SQD3 - Same as SQD, but 3-letter amino acid codes are used

SQN - Protein sequence name information, includes RN

CALC - Table of calculated properties
EPROP - Table of experimental properties

PROP - EPROP and CALC

Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be cited first. The CA File predefined formats are:

ABS -- Abstract

APPS -- Application and Priority Information

BIB -- CA Accession Number, plus Bibliographic Data

CAN -- CA Accession Number

CBIB -- CA Accession Number, plus Bibliographic Data (compressed)

IND -- Index Data

IPC -- International Patent Classification

PATS -- PI, SO

STD -- BIB, IPC, and NCL

IABS -- ABS, indented, with text labels IBIB -- BIB, indented, with text labels

ISTD -- STD format, indented

OBIB ----- AN, plus Bibliographic Data (original) OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations SIBIB ----- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.

The MAX format is the same as ALL.

The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

For additional information, please consult the following help messages:

HELP DFIELDS -- To see a complete list of individual display fields. HELP FORMATS -- To see detailed descriptions of the predefined formats. ENTER DISPLAY FORMAT (IDE):end

=> file caplus
COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 161.76 161.97

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 19:09:57 ON 15 APR 2005
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FILE COVERS 1907 - 15 Apr 2005 VOL 142 ISS 17 FILE LAST UPDATED: 14 Apr 2005 (20050414/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> 8 13

L4 1 L3

=> d his

(FILE 'HOME' ENTERED AT 19:08:48 ON 15 APR 2005)

FILE 'REGISTRY' ENTERED AT 19:08:57 ON 15 APR 2005

L1 STRUCTURE UPLOADED

L2 0 S L1 L3 1 S L1 FUL

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FILE 'CAPLUS' ENTERED AT 19:09:57 ON 15 APR 2005
             1 S L3
T.4
=> d l4 ibib hitstr abs
    ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:308421 CAPLUS
DOCUMENT NUMBER:
                        140:321351
                        Preparation of pyrazole derivatives as therapeutic
TITLE:
                        agents for HIV mediated diseases
INVENTOR(S):
                        Edwards, Paul John; Jones, Lyn Howard; Mowbray,
                        Charles Eric; Stupple, Paul Anthony; Tran, Isabelle
PATENT ASSIGNEE(S):
                        Pfizer Limited, UK; Pfizer Inc.
SOURCE:
                        PCT Int. Appl., 45 pp.
                        CODEN: PIXXD2
DOCUMENT TYPE:
                        Patent
LANGUAGE:
                        English
FAMILY ACC. NUM. COUNT:
                        1
PATENT INFORMATION:
                                      APPLICATION NO.
     PATENT NO.
                       KIND DATE
    WO 2004031156 A1
                        A1 20040415 WO 2003-IB4214 20030924
        W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
            CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
            GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
            LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
             PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,
             TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
             KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
             FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                        A1 20050310 US 2003-657033 20030905
GB 2002-23234 A 20021007
     US 2005054707
PRIORITY APPLN. INFO.:
OTHER SOURCE(S):
                        MARPAT 140:321351
IT
     678992-82-0P
     RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
     (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
        (preparation of pyrazole derivs. as therapeutic agents for HIV mediated
        diseases)
     678992-82-0 CAPLUS
RN
     1,3-Benzenedicarbonitrile, 5-[[3-ethyl-5-[2-[4-
CN
     (methylsulfonyl)phenoxy]ethyl]-1H-pyrazol-4-yl]oxy]- (9CI) (CA INDEX
     NAME)
```

GΙ

$$R^{4}O$$
 $R^{0}-O-R^{1}$
 R^{3}
 R^{2}
 R^{2}
 R^{2}

$$\begin{array}{c} NC \\ \\ NC \\ \\ Et \\ \\ NH \\ \end{array}$$

The title compds. [I; R0 = absent, alkylene; R1 = Ph substituted by SOyR5, alkylene(SOyR5), SOyCF3, etc.; R2 = H, alkyl, cycloalkyl, etc.; R3 = H, alkyl, cycloalkyl, Ph, etc.; R4 = (un)substituted Ph, naphthyl, pyridyl; R5 = H, alkyl, cycloalkyl, etc.; y = 0-2] which bind to the enzyme reverse transcriptase and are modulators, especially inhibitors thereof, and as such

useful in the treatment of a variety of disorders including those in which the inhibition' of reverse transcriptase is implicated, were prepared and formulated. Disorders of interest include those caused by Human Immunodificiency Virus (HIV) and genetically related retroviruses, such as Acquired Immune Deficiency Syndrome (AIDS). Thus, reacting 5-{[3-ethyl-5-(2-hydroxyethyl)-1H-pyrazol-4-yl]oxy}isophthalonitrile (preparation given) with 4-(methylmercapto)phenol afforded I [R0 = (CH2)2; R1 = 4-(MeS)C6H4; R2 = H; R3 = Et; R4 = 3,5-(NC)2C6H3] which showed IC50 of 2 nM against HIV-1 reverse transcriptase. The pharmaceutical composition comprising the compound I is claimed.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file req		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	6.29	168.26
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
DISCOUNT AMOUNTS (FOR QUALIFITING ACCOUNTS)	ENTRY	SESSION
CA SUBSCRIBER PRICE	-0.73	-0.73
CA SUBSCRIBER PRICE	-0.73	-0.73

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STRUCTURE FILE UPDATES: 14 APR 2005 HIGHEST RN 848555-82-8 DICTIONARY FILE UPDATES: 14 APR 2005 HIGHEST RN 848555-82-8

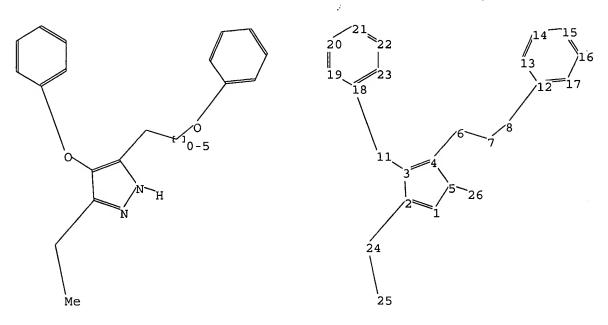
TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

Uploading C:\Program Files\Stnexp\Queries\106570331.str



chain nodes :

6 7 8 11 24 25 26

ring nodes :

1 2 3 4 5 12 13 14 15 16 17 18 19 20 21 22 23

chain bonds :

2-24 3-11 4-6 5-26 6-7 7-8 8-12 11-18 24-25

ring bonds :

1-2 1-5 2-3 3-4 4-5 12-13 12-17 13-14 14-15 15-16 16-17 18-19 18-23

19-20 20-21 21-22 22-23

exact/norm bonds :

1-2 1-5 2-3 3-4 3-11 4-5 7-8 8-12 11-18

exact bonds :

2-24 4-6 5-26 6-7 24-25

normalized bonds :

12-13 12-17 13-14 14-15 15-16 16-17 18-19 18-23 19-20 20-21 21-22 22-23

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 11:CLASS 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:CLASS 25:CLASS 26:CLASS

L5 STRUCTURE UPLOADED

=> s 15

SAMPLE SEARCH INITIATED 19:11:48 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 1 TO ITERATE

100.0% PROCESSED

1 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

> BATCH **COMPLETE**

PROJECTED ITERATIONS: 1 TO

PROJECTED ANSWERS: 0 TO 0

L6 0 SEA SSS SAM L5

=> s 15 ful

FULL SEARCH INITIATED 19:11:57 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 21 TO ITERATE

100.0% PROCESSED 21 ITERATIONS 7 ANSWERS

SEARCH TIME: 00.00.01

L7 7 SEA SSS FUL L5

=> file caplus

COST IN U.S. DOLLARS
SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST
161.33
329.59

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)
SINCE FILE TOTAL ENTRY SESSION

CA SUBSCRIBER PRICE 0.00 -0.73

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FILE COVERS 1907 - 15 Apr 2005 VOL 142 ISS 17 FILE LAST UPDATED: 14 Apr 2005 (20050414/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

.=> s 16

L8 0 L6

=> s 17

L9 2 L7

=> d 19 ibib hitstr abs

L9 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:308421 CAPLUS

DOCUMENT NUMBER: 140:321351

TITLE: Preparation of pyrazole derivatives as therapeutic

agents for HIV mediated diseases

INVENTOR(S): Edwards, Paul John; Jones, Lyn Howard; Mowbray,

Charles Eric; Stupple, Paul Anthony; Tran, Isabelle

Pfizer Limited, UK; Pfizer Inc. PATENT ASSIGNEE(S):

SOURCE:

PCT Int. Appl., 45 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	K	KIND I	DATE	APPL	ICATION 1	10.	DATE				
WO 200403115	66	A1 :	20040415	WO 2	003-IB421	L4	20030924				
W: AE,	AG, AL, A	AM, AT,	AU, AZ,	BA, BB,	BG, BR,	BY, B	BZ, CA,	CH, CN,			
CO,	CR, CU, C	CZ, DE,	DK, DM,	DZ, EC,	EE, ES,	FI, C	GB, GD,	GE, GH,			
GM,	HR, HU, I	ID, IL,	IN, IS,	JP, KE,	KG, KP,	KR, E	KZ, LC,	LK, LR,			
LS,	LT, LU, I	LV, MA,	MD, MG,	MK, MN,	MW, MX,	MZ, N	NI, NO,	NZ, OM,			
PG,	PH, PL, F	PT, RO,	RU, SC,	SD, SE,	SG, SK,	SL, S	SY, TJ,	TM, TN,			
TR,	TT, TZ, L	JA, UG,	US, UZ,	VC, VN,	YU, ZA,	ZM, 2	ZW				
RW: GH,	GM, KE, I	LS, MW,	MZ, SD,	SL, SZ,	TZ, UG,	ZM, Z	ZW, AM,	AZ, BY,			
KG,	KZ, MD, F	RU, TĴ,	TM, AT,	BE, BG,	CH, CY,	CZ, I	DE, DK,	EE, ES,			
FI,	FR, GB, G	GR, HU,	IE, IT,	LU, MC,	NL, PT,	RO, S	SE, SI,	SK, TR,			
BF,	BJ, CF, C	CG, CI,	CM, GA,	GN, GQ,	GW, ML,	MR, 1	NE, SN,	TD, TG			
US 200505470	7	A1 :	20050310	US 2	003-65703	33	20030905				
PRIORITY APPLN. I	NFO.:			GB 2	002-2323	4	A 20021007				
OTHER SOURCE(S): MARPAT 140:321351											
IT 678992-80-8P 678992-83-1P 678992-84-2P											
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic											

preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of pyrazole derivs. as therapeutic agents for HIV mediated diseases)

RN 678992-80-8 CAPLUS

1,3-Benzenedicarbonitrile, 5-[[3-ethyl-5-[2-[4-(methylthio)phenoxy]ethyl]-CN 1H-pyrazol-4-yl]oxy]- (9CI) (CA INDEX NAME)

RN 678992-83-1 CAPLUS

1,3-Benzenedicarbonitrile, 5-[[3-ethyl-5-[2-[3-(methylthio)phenoxy]ethyl]-CN 1H-pyrazol-4-yl]oxy]- (9CI) (CA INDEX NAME)

RN 678992-84-2 CAPLUS

CN 1,3-Benzenedicarbonitrile, 5-[[3-ethyl-5-[2-[3-(methylsulfinyl)phenoxy]ethyl]-1H-pyrazol-4-yl]oxy]- (9CI) (CA INDEX NAME)

IT 678992-81-9P 678992-82-0P 678992-85-3P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of pyrazole derivs. as therapeutic agents for HIV mediated diseases)

RN 678992-81-9 CAPLUS

CN 1,3-Benzenedicarbonitrile, 5-[[3-ethyl-5-[2-[4-(methylsulfinyl)phenoxy]ethyl]-1H-pyrazol-4-yl]oxy]- (9CI) (CA INDEX NAME)

RN 678992-82-0 CAPLUS CN 1,3-Benzenedicarbonitrile, 5-[[3-ethyl-5-[2-[4-

(methylsulfonyl)phenoxy]ethyl]-1H-pyrazol-4-yl]oxy]- (9CI) (CA INDEX NAME)

RN 678992-85-3 CAPLUS

CN 1,3-Benzenedicarbonitrile, 5-[[3-ethyl-5-[2-[3-(methylsulfonyl)phenoxy]ethyl]-1H-pyrazol-4-yl]oxy]- (9CI) (CA INDEX NAME)

GI

$$R^{4}O$$
 $R^{0}-O-R^{1}$
 R^{3}
 N
 R^{2}

2

$$\begin{array}{c|c} NC \\ \hline \\ NC \\ \hline \\ Et \\ N \end{array} \begin{array}{c} NH \\ \hline \\ NH \\ \end{array} \begin{array}{c} SMe \\ \hline \\ II \end{array}$$

AB The title compds. [I; R0 = absent, alkylene; R1 = Ph substituted by SOyR5, alkylene(SOyR5), SOyCF3, etc.; R2 = H, alkyl, cycloalkyl, etc.; R3 = H, alkyl, cycloalkyl, Ph, etc.; R4 = (un)substituted Ph, naphthyl, pyridyl; R5 = H, alkyl, cycloalkyl, etc.; y = 0-2] which bind to the enzyme reverse transcriptase and are modulators, especially inhibitors thereof, and as such

are

useful in the treatment of a variety of disorders including those in which the inhibition' of reverse transcriptase is implicated, were prepared and formulated. Disorders of interest include those caused by Human Immunodificiency Virus (HIV) and genetically related retroviruses, such as Acquired Immune Deficiency Syndrome (AIDS). Thus, reacting $5-\{[3-\text{ethyl}-5-(2-\text{hydroxyethyl})-1\text{H-pyrazol}-4-\text{yl}]\text{oxy}\}$ isophthalonitrile (preparation given) with 4-(methylmercapto) phenol afforded I [R0 = (CH2)2; R1 = 4-(MeS) C6H4; R2 = H; R3 = Et; R4 = 3,5-(NC)2C6H3] which showed IC50 of 2 nM against HIV-1 reverse transcriptase. The pharmaceutical composition comprising the compound I is claimed.

REFERENCE COUNT:

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 19 ibib hitstr abs 2

ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2002:832763 CAPLUS

DOCUMENT NUMBER:

137:337884

TITLE:

Preparation of aryloxy pyrazole derivatives as reverse

transcriptase inhibitors for treating HIV

INVENTOR(S):

Jones, Lyn Howard; Mowbray, Charles Eric; Price, Davis Anthony; Selby, Matthew Duncan; Stupple, Paul Anthony

PATENT ASSIGNEE(S): Pfizer Limited, UK; Pfizer Inc.

SOURCE:

PCT Int. Appl., 306 pp.

DOCUMENT TYPE:

Patent

CODEN: PIXXD2

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

P	PATENT NO.				KIND DATE								DATE				
W	VO 2002 W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	WO 2 BB	2002- , BG, , EE,	IB12: BR,	34 BY,	ΒZ,	CA,	CH,	CN,
		LS, PL, UA,	LT, PT, UG,	LU, RO,	LV, RU,	MA, SD,	MD, SE,	MG, SG,	MK, SI,	MN SK	, KG, , MW, , SL, , AM,	ΜX, TJ,	MZ, TM,	NO, TN,	NZ, TR,	OM, TT,	PH, TZ,
	RW:	CY,	GM, DE,	DK,	ES, CG,	FI, CI,	FR, CM,	GB, GA,	GR, GN,	IE GQ	, TZ, , IT, , GW,	LU, ML,	MC, MR,	NL, NE,	PT, SN,	SE, TD,	TR, TG
_	CA 2443										2002-						
E	EP 1377 R:			CH,							2002- , IT,						
							RO,										
E	EE 2003	0049	7		Α	-		EE 2003-497									
					A 20040309								20020404				
J	JP 2004	5315	35		T2							20020404					
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PRIORI	ITY API	LN.	INFO	.:						_	2001-					0010	
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											2002- 2002-					0020	
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OTHER SOURCE(S): MARPAT 137:337884

473921-42-5P, 3-[[5-[2-(4-Cyanophenoxy)ethyl]-3-ethyl-1H-pyrazol-4yl]oxy]-5-fluorobenzonitrile

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES

(drug candidate; preparation of aryloxy pyrazole derivs. as reverse transcriptase inhibitors for treating HIV)

473921-42-5 CAPLUS RN

Benzonitrile, 3-[[5-[2-(4-cyanophenoxy)ethyl]-3-ethyl-1H-pyrazol-4-yl]oxy]-CN 5-fluoro- (9CI) (CA INDEX NAME)

GΙ

Ι

AB This invention relates to pyrazole derivs. (shown as I; e.g. 2-Amino-6-[[4-(3,5-dichlorophenoxy)-3,5-diethyl-1H-pyrazol-1-yl]methyl]-4(3H)-pyrimidinone) or pharmaceutically acceptable salts, solvates or derivative thereof, wherein R1 to R4 are defined below, and to processes for the preparation thereof, intermediates used in their preparation of, compns. containing

them and the uses of such derivs. The compds. of the present invention bind to the enzyme reverse transcriptase and are modulators, especially inhibitors thereof. As such the compds. of the present invention are useful in the treatment of a variety of disorders including those in which the inhibition of reverse transcriptase is implicated. Disorders of interest include those caused by Human Immunodeficiency Virus (HIV) and genetically related retroviruses, such as Acquired Immune Deficiency Syndrome (AIDS). In tests of inhibition of HIV-1 reverse transcriptase enzyme, the claimed compds. 2-amino-6-[[4-(3,5-dichlorophenoxy)-3,5diethyl-1H-pyrazol-1-yl]methyl]-4(3H)-pyrimidinone, 3,5-dimethyl-4-[[3,5diethyl-1-(2-hydroxyethyl)-1H-pyrazol-4-yl]oxy]benzonitrile and 1-(3-azetidinyl)-4-(3,5-dichlorophenoxy)-3,5-diethyl-1H-pyrazole had IC50 values of 39,000, 3,200 and 248 nM, resp. In I: R1 is H, C1-C6 alkyl, C3-C7 cycloalkyl, Ph, benzyl, halo, -CN, -OR7, -CO2R10, -CONR5R10, R8 or R9. R2 is H, C1-C6 alkyl, C3-C6 alkenyl, C3-C6 alkynyl, C3-C7 cycloalkyl, C3-C7 cycloalkenyl, Ph, benzyl, R8 or R9; or, R1 and R2, when taken together, represent unbranched C3-C4 alkylene. R3 is H, C1-C6 alkyl, C3-C7 cycloalkyl, Ph, benzyl, halo, -CN, -OR7, -CO2R5, -CONR5R5, R8 or R9; R4 is Ph, naphthyl or pyridyl. Definitions of R5 and R7-R10 and addnl. specifications are given in the claims. Included are 283 claimed-compound

prepns. and 115 intermediate prepns.

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file reg

COST IN U.S. DOLLARS

SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE TOTAL
ENTRY SESSION
CA SUBSCRIBER PRICE

-1.46
-2.19

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STRUCTURE FILE UPDATES: 14 APR 2005 HIGHEST RN 848555-82-8 DICTIONARY FILE UPDATES: 14 APR 2005 HIGHEST RN 848555-82-8

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

* The CA roles and document type information have been removed from *

* the IDE default display format and the ED field has been added, *

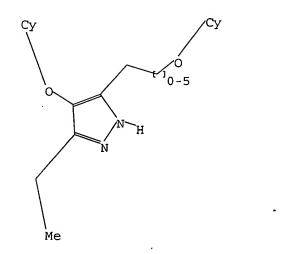
* effective March 20, 2005. A new display format, IDERL, is now *

* available and contains the CA role and document type information. *

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

Uploading C:\Program Files\Stnexp\Queries\106570332.str



chain nodes :

6 7 8 11 12 13 14 15 16

ring nodes : 1 2 3 4 5

chain bonds :

2-14 3-11 4-6 5-16 6-7 7-8 8-12 11-13 14-15

ring bonds :

1-2 1-5 2-3 3-4 4-5

exact/norm bonds :

1-2 1-5 2-3 3-4 3-11 4-5 7-8 8-12 11-13

exact bonds :

2-14 4-6 5-16 6-7 14-15

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 11:CLASS 12:Atom 13:Atom 14:CLASS 15:CLASS 16:CLASS

L10 STRUCTURE UPLOADED

=> s 110

SAMPLE SEARCH INITIATED 19:15:45 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 24 TO ITERATE

100.0% PROCESSED 24 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 187 TO 773 PROJECTED ANSWERS: 0 TO 0

L11 0 SEA SSS SAM L10

=> s 110 ful

FULL SEARCH INITIATED 19:15:54 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 645 TO ITERATE

100.0% PROCESSED 645 ITERATIONS 10 ANSWERS

SEARCH TIME: 00.00.01

L12 10 SEA SSS FUL L10

=> file caplus

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 161.33 503.50

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE
ENTRY
SESSION
CA SUBSCRIBER PRICE

0.00
-2.19

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FILE COVERS 1907 - 15 Apr 2005 VOL 142 ISS 17 FILE LAST UPDATED: 14 Apr 2005 (20050414/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 112

L13 2 L12

=> file caplus

COST IN U.S. DOLLARS
SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST
0.45 503.95

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE TOTAL
ENTRY SESSION
CA SUBSCRIBER PRICE

0.00 -2.19

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 113

L14 2 L12

=> d l14 ibib hitstr abs

L14 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:308421 CAPLUS

DOCUMENT NUMBER:

140:321351

TITLE:

Preparation of pyrazole derivatives as therapeutic

agents for HIV mediated diseases

INVENTOR(S):

Edwards, Paul John; Jones, Lyn Howard; Mowbray, Charles Eric; Stupple, Paul Anthony; Tran, Isabelle

PATENT ASSIGNEE(S): Pfizer Limited, UK; Pfizer Inc.

SOURCE:

PCT Int. Appl., 45 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:
FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.					KIND DATE		i	APPL	I CAT		DATE ·						
WO 2004	WO 2004031156			A1 20040415			Ţ	WO 2	003-		20030924						
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	-	-	-	-		DK,											
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	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NI,	NO,	NZ,	OM,	
	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,	TJ,	TM,	TN,	
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•	FI,	FR,	GB,	GR,	HU,	ΙE,	IT,	LU,	MC,	NL,	PT,	RO,	SE,	SI,	SK,	TR,	
				•		CM,					•				-		
US 2005054707				A1		2005	0310	US 2003-657033						20030905			
PRIORITY APPLN. INFO.:								(GB 2	002-	2323	4	1	A 2	0021	007	
OTHER SOURCE(S):				MAR	PAT	140:	3213	51									

IT 678992-80-8P 678992-83-1P 678992-84-2P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of pyrazole derivs. as therapeutic agents for HIV mediated diseases)

RN 678992-80-8 CAPLUS

CN 1,3-Benzenedicarbonitrile, 5-[[3-ethyl-5-[2-[4-(methylthio)phenoxy]ethyl]-1H-pyrazol-4-yl]oxy]- (9CI) (CA INDEX NAME)

IT 678992-81-9P 678992-82-0P 678992-85-3P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of pyrazole derivs. as therapeutic agents for HIV mediated diseases)

RN 678992-81-9 CAPLUS

CN 1,3-Benzenedicarbonitrile, 5-[[3-ethyl-5-[2-[4-(methylsulfinyl)phenoxy]ethyl]-1H-pyrazol-4-yl]oxy]- (9CI) (CA INDEX NAME)

RN 678992-82-0 CAPLUS

CN 1,3-Benzenedicarbonitrile, 5-[[3-ethyl-5-[2-[4-(methylsulfonyl)phenoxy]ethyl]-1H-pyrazol-4-yl]oxy]- (9CI) (CA INDEX NAME)

GΙ

$$R^{40}$$
 R^{0-0-R1}
 R^{3}
 N
 R^{2}

AB The title compds. [I; R0 = absent, alkylene; R1 = Ph substituted by SOyR5, alkylene(SOyR5), SOyCF3, etc.; R2 = H, alkyl, cycloalkyl, etc.; R3 = H, alkyl, cycloalkyl, Ph, etc.; R4 = (un)substituted Ph, naphthyl, pyridyl; R5 = H, alkyl, cycloalkyl, etc.; y = 0-2] which bind to the enzyme reverse transcriptase and are modulators, especially inhibitors thereof, and as such

are useful in the treatment of a variety of disorders including those in which the inhibition' of reverse transcriptase is implicated, were prepared and formulated. Disorders of interest include those caused by Human Immunodificiency Virus (HIV) and genetically related retroviruses, such as Acquired Immune Deficiency Syndrome (AIDS). Thus, reacting 5-{[3-ethyl-5-(2-hydroxyethyl)-1H-pyrazol-4-yl]oxy}isophthalonitrile (preparation given) with 4-(methylmercapto)phenol afforded I [R0 = (CH2)2; R1 = 4-(MeS)C6H4; R2 = H; R3 = Et; R4 = 3,5-(NC)2C6H3] which showed IC50 of 2 nM against HIV-1 reverse transcriptase. The pharmaceutical composition comprising the compound I is claimed.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d l14 ibib hitstr abs 2

L14 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:832763 CAPLUS

DOCUMENT NUMBER:

137:337884

TITLE: Preparation of aryloxy pyrazole derivatives as reverse

transcriptase inhibitors for treating HIV

Jones, Lyn Howard; Mowbray, Charles Eric; Price, Davis INVENTOR(S):

Anthony; (Selby, Matthew Duncan) Stupple, Paul Anthony Lun to There

PATENT ASSIGNEE(S): Pfizer Limited, UK; Pfizer Inc.

SOURCE: PCT Int. Appl., 306 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE WO 2002-IB1234 WO 2002085860 A1 20021031 20020404 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,

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             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
             TJ, TM
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             CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
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PRIORITY APPLN. INFO.:
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                                                                    Α
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                                                                    Ρ
                                                                       20010508
                                              US 2002-346727P
                                                                    Р
                                                                       20020107
                                              WO 2002-IB1234
                                                                    W
                                                                       20020404
OTHER SOURCE(S):
                          MARPAT 137:337884
     473921-42-5P, 3-[[5-[2-(4-Cyanophenoxy)ethyl]-3-ethyl-1H-pyrazol-4-
     yl]oxy]-5-fluorobenzonitrile 473921-43-6P, 3-Fluoro-5-[[3-ethyl-
     5-(2-((2-methyl-3-pyridyl)oxy)ethyl)-1H-pyrazol-4-yl]oxy]benzonitrile
     473921-44-7P, 3-Fluoro-5-[[3-ethyl-5-(2-((3-pyridyl)oxy)ethyl)-1H-
     pyrazol-4-yl]oxy]benzonitrile 473921-45-8P, 3-Fluoro-5-[[3-ethyl-
     5-(2-((2-amino-3-pyridyl)oxy)ethyl)-1H-pyrazol-4-yl]oxy]benzonitrile
     RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
     (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
        (drug candidate; preparation of aryloxy pyrazole derivs. as reverse
        transcriptase inhibitors for treating HIV)
     473921-42-5 CAPLUS
RN
```

Benzonitrile, 3-[[5-[2-(4-cyanophenoxy)ethyl]-3-ethyl-1H-pyrazol-4-yl]oxy]-

CN

RN 473921-43-6 CAPLUS

5-fluoro- (9CI) (CA INDEX NAME)

CN Benzonitrile, 3-[[3-ethyl-5-[2-[(2-methyl-3-pyridinyl)oxy]ethyl]-1H-pyrazol-4-yl]oxy]-5-fluoro- (9CI) (CA INDEX NAME)

RN 473921-44-7 CAPLUS

CN Benzonitrile, 3-[[3-ethyl-5-[2-(3-pyridinyloxy)ethyl]-1H-pyrazol-4-yl]oxy]-5-fluoro-(9CI) (CA INDEX NAME)

RN 473921-45-8 CAPLUS

CN Benzonitrile, 3-[[5-[2-[(2-amino-3-pyridinyl)oxy]ethyl]-3-ethyl-1H-pyrazol-4-yl]oxy]-5-fluoro-(9CI) (CA INDEX NAME)

$$R^4-0$$
 R^2
 R^3

AB This invention relates to pyrazole derivs. (shown as I; e.g. 2-Amino-6-[[4-(3,5-dichlorophenoxy)-3,5-diethyl-1H-pyrazol-1-yl]methyl]-4(3H)-pyrimidinone) or pharmaceutically acceptable salts, solvates or derivative thereof, wherein R1 to R4 are defined below, and to processes for the preparation thereof, intermediates used in their preparation of, compns. containing

them and the uses of such derivs. The compds. of the present invention bind to the enzyme reverse transcriptase and are modulators, especially inhibitors thereof. As such the compds. of the present invention are useful in the treatment of a variety of disorders including those in which the inhibition of reverse transcriptase is implicated. Disorders of interest include those caused by Human Immunodeficiency Virus (HIV) and genetically related retroviruses, such as Acquired Immune Deficiency Syndrome (AIDS). In tests of inhibition of HIV-1 reverse transcriptase enzyme, the claimed compds. 2-amino-6-[[4-(3,5-dichlorophenoxy)-3,5diethyl-1H-pyrazol-1-yl]methyl]-4(3H)-pyrimidinone, 3,5-dimethyl-4-[[3,5diethyl-1-(2-hydroxyethyl)-1H-pyrazol-4-yl]oxy]benzonitrile and 1-(3-azetidinyl)-4-(3,5-dichlorophenoxy)-3,5-diethyl-1H-pyrazole had IC50 values of 39,000, 3,200 and 248 nM, resp. In I: R1 is H, C1-C6 alkyl, C3-C7 cycloalkyl, Ph, benzyl, halo, -CN, -OR7, -CO2R10, -CONR5R10, R8 or R9. R2 is H, C1-C6 alkyl, C3-C6 alkenyl, C3-C6 alkynyl, C3-C7 cycloalkyl, C3-C7 cycloalkenyl, Ph, benzyl, R8 or R9; or, R1 and R2, when taken together, represent unbranched C3-C4 alkylene. R3 is H, C1-C6 alkyl, C3-C7 cycloalkyl, Ph, benzyl, halo, -CN, -OR7, -CO2R5, -CONR5R5, R8 or R9; R4 is Ph, naphthyl or pyridyl. Definitions of R5 and R7-R10 and addnl. specifications are given in the claims. Included are 283 claimed-compound prepns. and 115 intermediate prepns.

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file reg COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	12.58	516.53
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.46	-3.65

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* the IDE default display format and the ED field has been added, *

* effective March 20, 2005. A new display format, IDERL, is now *

* available and contains the CA role and document type information. *

*

Crossover limits have been increased. See HELP CROSSOVER for details.

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Uploading C:\Program Files\Stnexp\Queries\106570333.str

chain nodes :

6 7 8 11 12 13 14

ring nodes : 1 2 3 4 5 chain bonds :

2-12 3-11 4-6 5-14 6-7 7-8 12-13

ring bonds :

1-2 1-5 2-3 3-4 4-5

exact/norm bonds :

1-2 1-5 2-3 3-4 3-11 4-5 7-8

exact bonds :

2-12 4-6 5-14 6-7 12-13

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS

L15 STRUCTURE UPLOADED

=> s 115

SAMPLE SEARCH INITIATED 19:20:04 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 24 TO ITERATE

100.0% PROCESSED 24 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS:

187 TO 773

PROJECTED ANSWERS:

0 TO 0

L16 0 SEA SSS SAM L15

=> s 115 ful

FULL SEARCH INITIATED 19:20:14 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 645 TO ITERATE

100.0% PROCESSED 645 ITERATIONS

14 ANSWERS

SEARCH TIME: 00.00.01

L17 14 SEA SSS FUL L15

=> file caplus

COST IN U.S. DOLLARS
SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST
SINCE FILE TOTAL
161.33 677.86

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE TOTAL
ENTRY SESSION
CA SUBSCRIBER PRICE

0.00 -3.65

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FILE COVERS 1907 - 15 Apr 2005 VOL 142 ISS 17 FILE LAST UPDATED: 14 Apr 2005 (20050414/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 117

L18 2 L17

=> file reg

COST IN U.S. DOLLARS
SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST
3.15 681.01

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE TOTAL ENTRY SESSION

CA SUBSCRIBER PRICE 0.00 -3.65

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TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

Uploading C:\Program Files\Stnexp\Queries\106570334.str

chain nodes :

6 7 8 11 12 14

ring nodes : 1 2 3 4 5 chain bonds :

2-14 3-11 4-6 5-12 6-7 7-8

ring bonds :

1-2 1-5 2-3 3-4 4-5

exact/norm bonds :

1-2 1-5 2-14 3-11 4-5 7-8

exact bonds :

2-3 3-4 4-6 5-12 6-7 isolated ring systems :

containing 1 :

G1:C,H,O,X,Cb,Ak,CN

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 11:CLASS

12:CLASS 14:CLASS

L19 STRUCTURE UPLOADED

=> s 119

SAMPLE SEARCH INITIATED 19:24:41 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 105 TO ITERATE

100.0% PROCESSED 105 ITERATIONS 2 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

1486 TO 2714 2 TO 124 PROJECTED ITERATIONS:

PROJECTED ANSWERS:

L20 2 SEA SSS SAM L19

=> s 119 ful

FULL SEARCH INITIATED 19:24:50 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 2368 TO ITERATE

100.0% PROCESSED 2368 ITERATIONS 63 ANSWERS

SEARCH TIME: 00.00.01

L21 63 SEA SSS FUL L19

=> file caplus

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 161.33 842.34

SINCE FILE DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) TOTAL ENTRY SESSION

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FILE COVERS 1907 - 15 Apr 2005 VOL 142 ISS 17 FILE LAST UPDATED: 14 Apr 2005 (20050414/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 121

L22

24 L21

=> d 124 ibib hitstr abs 1-24

L24 NOT FOUND

The L-number entered has not been defined in this session, or it has been deleted. To see the L-numbers currently defined in this session, enter DISPLAY HISTORY at an arrow prompt (=>).

=> d 122 ibib hitstr abs 1-24

L22 ANSWER 1 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:308421 CAPLUS

DOCUMENT NUMBER: 140:321351

TITLE: Preparation of pyrazole derivatives as therapeutic

agents for HIV mediated diseases

INVENTOR(S): Edwards, Paul John; Jones, Lyn Howard; Mowbray,

Charles Eric; Stupple, Paul Anthony; Tran, Isabelle

PATENT ASSIGNEE(S): Pfizer Limited, UK; Pfizer Inc.

SOURCE: PCT Int. Appl., 45 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.			KIND DATE			APPLICATION NO.							DATE			
WO 2004031156			A1		2004	0415	1	WO 2	003-	20030924						
₩:	AE,	AG,	AL,	AM,	AT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,
	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KΕ,	KG,	ΚP,	KR,	ΚZ,	LC,	LK,	LR,
	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NI,	NO,	NZ,	OM,
	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,	TJ,	TM,	TN,
						US,										

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG US 2005054707 **A**1 20050310 US 2003-657033 20030905 PRIORITY APPLN. INFO.: GB 2002-23234 20021007 MARPAT 140:321351 OTHER SOURCE(S): 678992-80-8P 678992-83-1P 678992-84-2P RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (preparation of pyrazole derivs. as therapeutic agents for HIV mediated diseases) RN 678992-80-8 CAPLUS CN 1,3-Benzenedicarbonitrile, 5-[[3-ethyl-5-[2-[4-(methylthio)phenoxy]ethyl]-1H-pyrazol-4-yl]oxy]- (9CI) (CA INDEX NAME)

RN 678992-83-1 CAPLUS
CN 1,3-Benzenedicarbonitrile, 5-[[3-ethyl-5-[2-[3-(methylthio)phenoxy]ethyl]-1H-pyrazol-4-yl]oxy]- (9CI) (CA INDEX NAME)

RN 678992-84-2 CAPLUS
CN 1,3-Benzenedicarbonitrile, 5-[[3-ethyl-5-[2-[3-(methylsulfinyl)phenoxy]ethyl]-1H-pyrazol-4-yl]oxy]- (9CI) (CA INDEX

NAME)

IT 678992-81-9P 678992-82-0P 678992-85-3P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of pyrazole derivs. as therapeutic agents for HIV mediated diseases)

RN 678992-81-9 CAPLUS

CN 1,3-Benzenedicarbonitrile, 5-[[3-ethyl-5-[2-[4-(methylsulfinyl)phenoxy]ethyl]-1H-pyrazol-4-yl]oxy]- (9CI) (CA INDEX NAME)

RN 678992-82-0 CAPLUS

CN 1,3-Benzenedicarbonitrile, 5-[[3-ethyl-5-[2-[4-(methylsulfonyl)phenoxy]ethyl]-1H-pyrazol-4-yl]oxy]- (9CI) (CA INDEX NAME)

RN 678992-85-3 CAPLUS

CN 1,3-Benzenedicarbonitrile, 5-[[3-ethyl-5-[2-[3-(methylsulfonyl)phenoxy]ethyl]-1H-pyrazol-4-yl]oxy]- (9CI) (CA INDEX NAME)

IT 473921-46-9P 473921-47-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of pyrazole derivs. as therapeutic agents for HIV mediated diseases)

RN 473921-46-9 CAPLUS

CN 1,3-Benzenedicarbonitrile, 5-[[3-ethyl-5-[2-(phenylmethoxy)ethyl]-1H-pyrazol-4-yl]oxy]- (9CI) (CA INDEX NAME)

RN 473921-47-0 CAPLUS

CN 1,3-Benzenedicarbonitrile, 5-[[3-ethyl-5-(2-hydroxyethyl)-1H-pyrazol-4-yl]oxy]- (9CI) (CA INDEX NAME)

GI

$$R^{40}$$
 R^{0-0-R1}
 R^{3}
 N
 R^{2}
 R^{2}

The title compds. [I; R0 = absent, alkylene; R1 = Ph substituted by SOyR5, alkylene(SOyR5), SOyCF3, etc.; R2 = H, alkyl, cycloalkyl, etc.; R3 = H, alkyl, cycloalkyl, Ph, etc.; R4 = (un)substituted Ph, naphthyl, pyridyl; R5 = H, alkyl, cycloalkyl, etc.; y = 0-2] which bind to the enzyme reverse transcriptase and are modulators, especially inhibitors thereof, and as such

are

useful in the treatment of a variety of disorders including those in which the inhibition' of reverse transcriptase is implicated, were prepared and formulated. Disorders of interest include those caused by Human Immunodificiency Virus (HIV) and genetically related retroviruses, such as Acquired Immune Deficiency Syndrome (AIDS). Thus, reacting 5-{[3-ethyl-5-(2-hydroxyethyl)-1H-pyrazol-4-yl]oxy}isophthalonitrile (preparation given) with 4-(methylmercapto)phenol afforded I [R0 = (CH2)2; R1 = 4-(MeS)C6H4; R2 = H; R3 = Et; R4 = 3,5-(NC)2C6H3] which showed IC50 of 2 nM against HIV-1 reverse transcriptase. The pharmaceutical composition comprising the compound I is claimed.

REFERENCE COUNT:

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS 2 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 2 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2004:63587 CAPLUS

DOCUMENT NUMBER:

141:243399

TITLE:

Chemistry of Diazopolycarbonyl Compounds: VIII. Synthesis of Nitrogen-containing Heterocycles via Transformations of Substituted 2-diazopentane-1,3,5-

triones

AUTHOR(S):

CORPORATE SOURCE:

Kutkovaya, N. V.; Vyaznikova, N. G.; Zalesov, V. V. Research Institute of Vaccines and Serum at Federal

State Unitary Enterprise "Biomed", Perm, Russia

SOURCE:

Russian Journal of Organic Chemistry (Translation of

Zhurnal Organicheskoi Khimii) (2003), 39(11),

1644-1648

CODEN: RJOCEQ; ISSN: 1070-4280

PUBLISHER:

MAIK Nauka/Interperiodica Publishing

DOCUMENT TYPE:

Journal

LANGUAGE:

English

OTHER SOURCE(S):

CASREACT 141:243399 749923-98-6P 749923-99-7P 749924-00-3P

749924-01-4P 749924-02-5P 749924-03-6P

749924-04-7P

RL: SPN (Synthetic preparation); PREP (Preparation)

(synthesis of nitrogen-containing heterocycles via transformations of substituted diazopentanetriones)

749923-98-6 CAPLUS RN

1H-Pyrazole-3-carboxylic acid, 5-(4-bromobenzoyl)-4-hydroxy-, ethyl ester CN(9CI) (CA INDEX NAME)

RN 749923-99-7 CAPLUS

CN Methanone, (5-benzoyl-4-hydroxy-1H-pyrazol-3-yl)(4-bromophenyl)- (9CI) (CA INDEX NAME)

RN 749924-00-3 CAPLUS CN Methanone, (5-benzoyl-4-hydroxy-1H-pyrazol-3-yl)(4-nitrophenyl)- (9CI) (CA INDEX NAME)

RN 749924-01-4 CAPLUS CN Methanone, [4-hydroxy-5-(4-methoxybenzoyl)-1H-pyrazol-3-yl](4-nitrophenyl)-(9CI) (CA INDEX NAME)

RN 749924-02-5 CAPLUS CN Methanone, [5-(4-chlorobenzoyl)-4-hydroxy-1H-pyrazol-3-yl](4-nitrophenyl)-(9CI) (CA INDEX NAME)

RN 749924-03-6 CAPLUS CN Methanone, [5-(4-bromobenzoyl)-4-hydroxy-1H-pyrazol-3-yl](4-nitrophenyl)-(9CI) (CA INDEX NAME)

RN 749924-04-7 CAPLUS CN Methanone, [5-(4-bromobenzoyl)-4-hydroxy-1H-pyrazol-3-yl](4-methoxyphenyl)-(9CI) (CA INDEX NAME)

AB Et 5-aryl-2-diazo-3,5-dioxopentanoates and 1,5-diaryl-2-diazopentane-1,3,5-triones are partially enolized in solns. By 0-methylation of enol forms of diazo esters with diazomethane Et 5-aryl-2-diazo-5-methoxy-3-oxopent-4-enoates were prepared Concurrently with the 0-methylation the diazo esters undergo heterocyclization into 3,5-disubstituted 4-hydroxypyrazoles which under the reaction condition suffer 0- and N-methylation by excess diazomethane. 3,5-Diaroyl-4-hydroxypyrazoles were also obtained from diazopentanetriones but here triethylamine served as the cyclization reagent.

REFERENCE COUNT:

THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 4 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2002:832763 CAPLUS

DOCUMENT NUMBER:

137:337884

TITLE:

Preparation of aryloxy pyrazole derivatives as reverse

transcriptase inhibitors for treating HIV

INVENTOR(S):

Jones, Lyn Howard; Mowbray, Charles Eric; Price, Davis

Anthony; Selby, Matthew Duncan; Stupple, Paul Anthony

PATENT ASSIGNEE(S):

Pfizer Limited, UK; Pfizer Inc.

SOURCE:

PCT Int. Appl., 306 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

PR

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA	TENT	NO.			KIN	D	DATE			APPI	LICAT	ION	NO.		D.	ATE	
 WC	WO 2002085860				Δ1 20021031					2002-		20020404					
WC	W:	AE, CO, GM, LS, PL, UA,	AG, CR, HR, LT, PT, UG,	AL, CU, HU, LU, RO,	AM, CZ, ID, LV, RU,	AT, DE, IL, MA, SD,	AU, DK, IN, MD, SE,	AZ, DM, IS, MG, SG,	BA, DZ, JP, MK, SI,	BB EC KE MN SK	, BG, , EE, , KG, , MW, , SL,	BR, ES, KP, MX, TJ,	BY, FI, KR, MZ, TM,	BZ, GB, KZ, NO, TN,	CA, GD, LC, NZ, TR,	CH, GE, LK, OM, TT,	CN, GH, LR, PH, TZ,
	RW:	CY,	GM, DE,	DK,	ES,	FI,	FR,	GB,	GR,	IE,	, TZ, , IT, , GW,	LU,	MC,	NL,	PT,	SE,	TR,
CA	2443										2002-:						
EP	1377556			A1	20040107			EP 2002-708600						20020404			
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR.	, IT,	LI,	LU,	NL,	SE,	MC,	PT,
		Ì IE,			•	•											
	EE 200300497						EE 2003-497										
	BR 2002008811						BR 2002-8811										
	2004				T2			1014			2002-		-				
	2003										2002-						
	2003							0910			2003-						
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											2001-					0010	
											2002-				_		
										WO:	2002-	1812.	34	1	N 2	0020	404

OTHER SOURCE(S): MARPAT 137:337884

IT 473921-40-3P, 3-[[5-[2-(Benzyloxy)ethyl]-3-ethyl-1H-pyrazol-4-

RN 473921-41-4 CAPLUS CN Benzonitrile, 3-[[3-ethyl-5-(2-hydroxyethyl)-1H-pyrazol-4-yl]oxy]-5-fluoro-(9CI) (CA INDEX NAME)

$$\begin{array}{c} \text{H} \\ \text{N} \\ \text{CH}_2-\text{CH}_2-\text{O-CH}_2-\text{Ph} \\ \\ \text{Et} \\ \text{O} \\ \\ \text{CN} \end{array}$$

IT 473921-42-5P, 3-[[5-[2-(4-Cyanophenoxy)ethyl]-3-ethyl-1H-pyrazol-4-yl]oxy]-5-fluorobenzonitrile 473921-43-6P, 3-Fluoro-5-[[3-ethyl-5-(2-((2-methyl-3-pyridyl)oxy)ethyl)-1H-pyrazol-4-yl]oxy]benzonitrile 473921-44-7P, 3-Fluoro-5-[[3-ethyl-5-(2-((3-pyridyl)oxy)ethyl)-1H-pyrazol-4-yl]oxy]benzonitrile 473921-45-8P, 3-Fluoro-5-[[3-ethyl-5-(2-((2-amino-3-pyridyl)oxy)ethyl)-1H-pyrazol-4-yl]oxy]benzonitrile 473921-47-0P, 5-[[3-Ethyl-5-(2-hydroxyethyl)-1H-pyrazol-4-yl]oxy]isophthalonitrile RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of aryloxy pyrazole derivs. as reverse transcriptase inhibitors for treating HIV)

RN 473921-42-5 CAPLUS

CN Benzonitrile, 3-[[5-[2-(4-cyanophenoxy)ethyl]-3-ethyl-1H-pyrazol-4-yl]oxy]-5-fluoro- (9CI) (CA INDEX NAME)

RN 473921-43-6 CAPLUS

CN Benzonitrile, 3-[[3-ethyl-5-[2-[(2-methyl-3-pyridinyl)oxy]ethyl]-1H-pyrazol-4-yl]oxy]-5-fluoro- (9CI) (CA INDEX NAME)

RN 473921-44-7 CAPLUS

CN Benzonitrile, 3-[[3-ethyl-5-[2-(3-pyridinyloxy)ethyl]-1H-pyrazol-4-yl]oxy]-5-fluoro-(9CI) (CA INDEX NAME)

RN 473921-45-8 CAPLUS

CN Benzonitrile, 3-[[5-[2-[(2-amino-3-pyridinyl)oxy]ethyl]-3-ethyl-1H-pyrazol-4-yl]oxy]-5-fluoro-(9CI) (CA INDEX NAME)

RN 473921-47-0 CAPLUS

CN 1,3-Benzenedicarbonitrile, 5-[[3-ethyl-5-(2-hydroxyethyl)-1H-pyrazol-4-yl]oxy]- (9CI) (CA INDEX NAME)

$$R^{4}-O$$
 R^{2}
 R^{2}
 R^{2}

Ι

GI

AB This invention relates to pyrazole derivs. (shown as I; e.g. 2-Amino-6-[[4-(3,5-dichlorophenoxy)-3,5-diethyl-1H-pyrazol-1-yl]methyl]-4(3H)-pyrimidinone) or pharmaceutically acceptable salts, solvates or derivative thereof, wherein R1 to R4 are defined below, and to processes for the preparation thereof, intermediates used in their preparation of, compns. containing

them and the uses of such derivs. The compds. of the present invention bind to the enzyme reverse transcriptase and are modulators, especially inhibitors thereof. As such the compds. of the present invention are useful in the treatment of a variety of disorders including those in which . the inhibition of reverse transcriptase is implicated. Disorders of interest include those caused by Human Immunodeficiency Virus (HIV) and genetically related retroviruses, such as Acquired Immune Deficiency Syndrome (AIDS). In tests of inhibition of HIV-1 reverse transcriptase enzyme, the claimed compds. 2-amino-6-[[4-(3,5-dichlorophenoxy)-3,5diethyl-1H-pyrazol-1-yl]methyl]-4(3H)-pyrimidinone, 3,5-dimethyl-4-[[3,5diethyl-1-(2-hydroxyethyl)-1H-pyrazol-4-yl]oxy]benzonitrile and 1-(3-azetidiny1)-4-(3,5-dichlorophenoxy)-3,5-diethyl-1H-pyrazole had IC50 values of 39,000, 3,200 and 248 nM, resp. In I: R1 is H, C1-C6 alkyl, C3-C7 cycloalkyl, Ph, benzyl, halo, -CN, -OR7, -CO2R10, -CONR5R10, R8 or R9. R2 is H, C1-C6 alkyl, C3-C6 alkenyl, C3-C6 alkynyl, C3-C7 cycloalkyl, C3-C7 cycloalkenyl, Ph, benzyl, R8 or R9; or, R1 and R2, when taken together, represent unbranched C3-C4 alkylene. R3 is H, C1-C6 alkyl, C3-C7 cycloalkyl, Ph, benzyl, halo, -CN, -OR7, -CO2R5, -CONR5R5, R8 or R9; R4 is Ph, naphthyl or pyridyl. Definitions of R5 and R7-R10 and addnl. specifications are given in the claims. Included are 283 claimed-compound prepns. and 115 intermediate prepns.

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 8 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1999:375284 CAPLUS

DOCUMENT NUMBER:

131:31936

TITLE:

Selective β 3 adrenergic agonists

INVENTOR(S):

Crowell, Thomas Alan; Jones, Charles David; Shuker,

Anthony John

PATENT ASSIGNEE(S):

Eli Lilly and Company, USA

SOURCE:

Eur. Pat. Appl., 48 pp. CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA					KIND DATE		APPLICATION NO.											
EP	9211 R:				A1				E GB,	P 19	98-	3098	68		19			
ZA	9811				LV, A			0602	Z	A 19	98-	1102	6		1:	9981:	202	
CA			AA 19990617			CA 1998-2312987					19981204							
WO							WO 1998-US25831											
	W :								BG,									
		-	-	-					GH,									
		•							LS, SD,									
		•	•	•	•			•	ZW,			•		-	•			TM
	RW:	•		•			•		UG,			•		•	•	•	•	
		FI,	FR,	GB,	GR,	ΙE,	ΙT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,	CG,	CI,	
		•			•		•		SN,	•								
							AU 1999-16281											
US	US 6046227			Α	A 20000404			US 1998-206107					19981204					
JP	JP 2001525399			T2	T2 20011211			JP 2000-524270				19981204						
US	US 6617347				B1				US 1999-443272				19991118					
PRIORIT	PRIORITY APPLN. INFO.:							US 1997-67599P				P 19971205						
								US 1998-204372				A1 19981202						
									U	S 19	98-	2061	07	Ž	A3 1	9981	204	
									W	0 19	98-	US25	831	1	W 1	9981	204	

OTHER SOURCE(S):

MARPAT 131:31936

IT 23705-86-4P 226989-47-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(pyrazole derivs. as selective $\beta 3$ adrenergic agonists)

RN 23705-86-4 CAPLUS

RN 226989-47-5 CAPLUS

CN 1H-Pyrazole-3,5-dicarboxylic acid, 4-hydroxy- (9CI) (CA INDEX NAME)

GΙ

$$\begin{array}{c|c} OH & H \\ \hline N & Me \end{array}$$

Pyrazole derivs. such as I (R = H) were prepared as β 3 adrenergic agonists. Thus, 1.75 g (S)-1-benzyl-4-glycidylpyrazole and 3.6 g 4-Me2C(NH2)CH2CH2C6H4OC6H4CONH2-4 were heated to 45° for 72 h in 100 mL EtOH to give I (R = benzyl) in 52.5% yield. Hydrogenolysis of I (benzyl) over 20% Pd(OH)2/C in EtOH at 40° for 72 h gave I (R = H) in 32% yield. A combinatorial chemical example was also given. In evaluating β 3 agonist activity (cAMP assays), the present compds. showed at least 30%, preferably 50%, and most preferably >85% of isoproterenol's response at a single dose of 50 mmol.

REFERENCE COUNT:

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Ι

L22 ANSWER 9 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN

4

ACCESSION NUMBER:

1999:162019 CAPLUS

DOCUMENT NUMBER:

130:237515

TITLE:

Selective dopamine receptors: synthesis, complexing properties, and molecular modeling studies of new

podands derived from 4-hydroxy-1H-pyrazole

AUTHOR (S):

Rodriguez-Franco, Maria Isabel; San Lorenzo, Patricia;

Martinez, Ana; Navarro, Pilar

CORPORATE SOURCE:

Instituto de Quimica Medica (C.S.I.C.), Madrid, 28006,

Spain

SOURCE:

Tetrahedron (1999), 55(9), 2763-2772

CODEN: TETRAB; ISSN: 0040-4020

PUBLISHER:

Elsevier Science Ltd.

DOCUMENT TYPE:

Journal English

LANGUAGE: OTHER SOURCE(S):

CASREACT 130:237515

IT 23705-86-4

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of hydroxypyrazole podands, mol. modeling, and complexation behavior toward cations and dopamine and norepinephrine)

RN 23705-86-4 CAPLUS

CN 1H-Pyrazole-3,5-dicarboxylic acid, 4-hydroxy-, diethyl ester (9CI) (CA INDEX NAME)

IT 221347-44-0P 221347-45-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of hydroxypyrazole podands, mol. modeling, and complexation behavior toward cations and dopamine and norepinephrine)

RN 221347-44-0 CAPLUS

CN 1H-Pyrazol-4-ol, 3,5-bis(2,5,8,11-tetraoxadodec-1-yl)- (9CI) (CA INDEX NAME)

PAGE 1-B

-- CH₂-- O-- CH₂-- CH₂-- O-- CH₂-- CH₂-- OMe

RN 221347-45-1 CAPLUS

CN 1H-Pyrazole, 4-(phenylmethoxy)-3,5-bis(2,5,8,11-tetraoxadodec-1-yl)- (9CI) (CA INDEX NAME)

PAGE 1-B

-- CH₂-- O-- CH₂-- O-- CH₂-- CH₂-- OMe

IT 221347-37-1P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of hydroxypyrazole podands, mol. modeling, and complexation behavior toward cations and dopamine and norepinephrine)

RN 221347-37-1 CAPLUS

CN 1H-Pyrazole-3,5-dicarboxylic acid, 4-(phenylmethoxy)-, diethyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & & \\ & & & \\ & & & \\ \text{EtO-C} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ \end{array}$$

GΙ

AB New podands, I (R1 = R4 = CH2Ph, H; R1 = CH2Ph, R4 = H; R1 = H, R4 = CH2Ph), derived from 4-hydroxy-1H-pyrazole have been prepared Their complexing properties toward cations (Na+, K+, NH4+) and some neurotransmitters (dopamine and norepinephrine) have been studied, using biphasic extraction expts., mol. modeling, and a NMR titration Podand I (R1 = CH2Ph, R4 = H), 1-benzyl-4-hydroxy-3,5-bis(2,5,8,11-tetraoxadodecan-1-yl)-1H-pyrazole, showed an interesting selective complexation of dopamine.

REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS

L22 ANSWER 10 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1996:162161 CAPLUS

DOCUMENT NUMBER: 124:317104

TITLE: Chemistry of diazopolycarbonyl compounds. II.

Synthesis of aroylacetyl derivatives of diazopyruvic

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

acid esters and their reaction with ammonia and

o-phenylenediamine

AUTHOR(S): Zalesov, V. V.; Vyaznikova, N. G.; Andreichikov, Yu.

S.

CORPORATE SOURCE: Perm. Farm. Inst., Russia

SOURCE: Zhurnal Organicheskoi Khimii (1995), 31(8), 1213-17

CODEN: ZORKAE; ISSN: 0514-7492

PUBLISHER:

Nauka

DOCUMENT TYPE:

Journal Russian

LANGUAGE:

Russi

IT 176375-05-6P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

RN 176375-05-6 CAPLUS

CN 1H-Pyrazole-3-acetamide, 4-hydroxy-5-(4-methylbenzoyl)- α -oxo- (9CI)

(CA INDEX NAME)

$$\begin{array}{c|c} H & O & Me \\ \hline N & N & C & C \\ H_2N-C-C & OH & C & C \\ \parallel & \parallel & C & C \\ 0 & O & C & C & C \\ \end{array}$$

GI

$$\begin{array}{c|c} \text{H}_2\text{NCOCO} & \text{OH} \\ \hline \\ \text{N} & \text{CO} \\ \hline \end{array} \begin{array}{c} \text{Me} \\ \text{II} \end{array}$$

AB (Z)-R1OCOCOC(:N2)COCH:C(OH)C6H4R2-4 (I; R1 = Et, Pr, Bu; R2 = H, Me, OMe, Cl, Br) were prepared by reaction of 5-aryl-2,3-furandiones with R1OCOCOCHN2. Reaction of I with NH4OH gave pyrazoles, e.g., II, and reaction with o-phenylenediamine gave pyrazolylquinoxalines, e.g., III. Other quinoxalines were prepared from the arylfurandiones and o-phenylenediamine.

III

L22 ANSWER 21 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1977:89704 CAPLUS

DOCUMENT NUMBER: 86:89704

TITLE: Synthesis and biological activity of

1,2,3-triazolo-1,8-naphthyridine derivatives

AUTHOR (S):

Livi, O.; Ferrarini, P. L.; Tonetti, I.

CORPORATE SOURCE:

Ist. Chim. Farm., Univ. Pisa, Pisa, Italy

SOURCE:

Farmaco, Edizione Scientifica (1976), 31(11), 797-808

CODEN: FRPSAX; ISSN: 0430-0920

DOCUMENT TYPE:

Journal

LANGUAGE:

Italian

OTHER SOURCE(S):

CASREACT 86:89704

23705-86-4P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

23705-86-4 CAPLUS RN

1H-Pyrazole-3,5-dicarboxylic acid, 4-hydroxy-, diethyl ester (9CI) CN

INDEX NAME)

GI

Triazolylnaphthyridines I (R = Ph, CO2Et, cyano, R1 = NH2; R = CO2Et, AB CO2H, R1 = Me, Ph, 4-O2NC6H4; R = Ac, Bz, R1 = Me, Ph; R = Ph, CONHPh, R1 = Me; R = CO2Et, R1 = CH2CO2Et; R = H, R1 = 4-O2NC6H4) were prepared by reaction of 2-methyl-5-azido-1,8-naphthyridine with RCH2CN or RCOCH2R1. (R1 = NH2) rearranged on heating to the triazolylaminonaphthyridines II. I (R = CONHPh, R1 = Me) had twice the analgesic activity of phenylbutazone. I (R = Ac, Ph, R1 = Me) and II (R = Ph) had sedative activity (no data) and II (R = Ph, CO2H) were fungicidal.

L22 ANSWER 22 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1977:43964 CAPLUS

DOCUMENT NUMBER:

86:43964

TITLE:

Syntheses of C-nucleosides. IX. Reactions of D, L-3, 4-di-O-isopropylidene-2, 5-anhydroallose with

Wittig reagents. Syntheses of bis-homo

anhydro-C-nucleosides

AUTHOR (S):

Just, George; Ramjeesingh, Mohabir; Liak, Teng Jiam

CORPORATE SOURCE:

Dep. Chem., McGill Univ., Montreal, QC, Can.

SOURCE: Canadian Journal of Chemistry (1976), 54(18), 2940-7

CODEN: CJCHAG; ISSN: 0008-4042

DOCUMENT TYPE:

Journal Fralish

LANGUAGE: English
IT 61407-36-1P 61407-37-2P 61407-38-3P

61407-39-4P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

RN 61407-36-1 CAPLUS

CN D-glycero-D-allo-Heptitol, 2,7:3,6-dianhydro-1-deoxy-1-[4-hydroxy-5-(methoxycarbonyl)-1H-pyrazol-3-yl]-4,5-O-(1-methylethylidene)-, rel- (9CI) (CA INDEX NAME)

(41 20240 00412)

Relative stereochemistry.

RN 61407-37-2 CAPLUS

CN D-glycero-D-altro-Heptitol, 2,7:3,6-dianhydro-1-deoxy-1-[4-hydroxy-5-(methoxycarbonyl)-1H-pyrazol-3-yl]-4,5-O-(1-methylethylidene)-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 61407-38-3 CAPLUS

CN D-glycero-D-allo-Heptitol, 1-[5-(aminocarbonyl)-4-hydroxy-1H-pyrazol-3-yl]-2,7:3,6-dianhydro-1-deoxy-4,5-O-(1-methylethylidene)-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 61407-39-4 CAPLUS

CN D-glycero-D-allo-Heptitol, 1-[5-(aminocarbonyl)-4-hydroxy-1H-pyrazol-3-yl]-2,7:3,6-dianhydro-1-deoxy-, rel-(9CI) (CA INDEX NAME)

Relative stereochemistry.

GI

The NMR spectra of the two anomers of 1-O-acetyl-3,4-di-O-isopropylidene-2,5-anhydro-D,L-allose are discussed. Wittig reactions of D,L-3,4-di-O-isopropylidene-2,5-anhydroallose gave the olefins I (R = H, R1 = CO2Et; R = Br, R1 = CO2Et; R = CO2Et, R1 = Br; R = H, R1 = COCO2Et) and an internal Michael addition product II (R = H, R1 = CH2COCO2Et; R = CH2COCO2Et, R1 = H). II gave two bis-homo anhydro-C-nucleosides having 6-azauracil and 4-hydroxy-5-carboxamidopyrazole base.

L22 ANSWER 23 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1970:445752 CAPLUS

DOCUMENT NUMBER: 73:45752

TITLE: Hydrazine reactions. XII. Reaction of 4-ulose

hydrazones to 4-hydroxypyridazines and of 3-ulose

hydrazones to 4-hydroxypyrazoles

AUTHOR(S): Paulsen, Hans; Steinert, Karin; Steinert, Gerd

CORPORATE SOURCE: Inst. Org. Chem., Univ. Hamburg, Hamburg, Fed. Rep.

Ger.

SOURCE: Chemische Berichte (1970), 103(6), 1846-54

RN

CODEN: CHBEAM; ISSN: 0009-2940

DOCUMENT TYPE: Journal LANGUAGE: German

OTHER SOURCE(S): CASREACT 73:45752

IT 29673-22-1P 29906-02-3P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of) 29673-22-1 CAPLUS

CN Pyrazolium, 4-hydroxy-2-methyl-5-(D-erythro-1,2,3-trihydroxypropyl)-,

hydroxide, inner salt (8CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 29906-02-3 CAPLUS

CN 1,2,3-Propanetriol, 1-(4-hydroxypyrazol-3-yl)-, D-erythro- (8CI) (CA INDEX NAME)

Absolute stereochemistry.

GI For diagram(s), see printed CA Issue.

AB 2,3:5,6-Di-O-isopropylidene-D-xylo-hexos-4-ulose hydrazone di-Me acetal was cyclized with 2N HCl to give (via the corresponding 1:1 4- and 5-hydroxypyridazinium chloride, with subsequent HCl cleavage)
3-(D-glycero-1,2-dihydroxyethyl)-4(1H)- and -5(2H)-pyridazinone (I and II). The corresponding N'-methylhydrazone gave only the 5-hydroxy derivative, isolated as a zwitterion. 3,5-Dideoxy-3-hydrazino-1,2-O-isopropylidene-D-ribofuranose p-toluenesulfonate, prepared from 5-deoxy-1,2-O-isopropylidene-3-O-p-tolylsulfonyl-D-xylofuranose and H2NNH2, gave with 2N HCl 5-(D-glycero-1-hydroxyethyl)pyrazole (III, R = Me). Similarly, 1,2:5,6-Di-O-isopropylidene-α-D-ribo-hexofuranos-3-ulose hydrazone gave 4-hydroxy-5-(D-erythro-1,2,3-trihydroxypropyl)pyrazole [III, R = CH(OH)CH2OH]. NMR and uv data were reported.

L22 ANSWER 24 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1969:47359 CAPLUS

DOCUMENT NUMBER: 70:47359

TITLE: Esters of 4-hydroxypyrazole-3,5-dicarboxylic acid
AUTHOR(S): Begtrup, Mikael; Larsen, P. Skov; Pedersen, Christian
CORPORATE SOURCE: Org.-Kem. Lab., Polytek. Laereanstalt, Lyngby, Den.
SOURCE: Acta Chemica Scandinavica (1947-1973) (1968), 22(8),

2476-8

CODEN: ACSAA4; ISSN: 0001-5393

DOCUMENT TYPE: LANGUAGE: Journal English

OTHER SOURCE(S):

CASREACT 70:47359

IT 23705-85-3P 23705-86-4P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

RN 23705-85-3 CAPLUS

CN 1H-Pyrazole-3,5-dicarboxylic acid, 4-hydroxy-, dimethyl ester (9CI) (CA

INDEX NAME)

RN 23705-86-4 CAPLUS

CN 1H-Pyrazole-3,5-dicarboxylic acid, 4-hydroxy-, diethyl ester (9CI) (CA INDEX NAME)

AB The base catalyzed reaction of di-Me diazomalonate with di-Me malonate (I) gives a high yield of di-Me 4-hydroxypyrazole-3,5-dicarboxylate (II). The corresponding di-Et ester was obtained in low yield only. The mechanism of the formation of II as a by-product in the reaction of PhN3 with I is discussed.

=> log y

COST IN U.S. DOLLARS

SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST

119.46
961.80

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE TOTAL
ENTRY SESSION

CA SUBSCRIBER PRICE:

-17.52 -21.17

STN INTERNATIONAL LOGOFF AT 19:26:04 ON 15 APR 2005

The title compds. [I; R0 = absent, alkylene; R1 = Ph substituted by SOyR5, AB alkylene(SOyR5), SOyCF3, etc.; R2 = H, alkyl, cycloalkyl, etc.; R3 = H, alkyl, cycloalkyl, Ph, etc.; R4 = (un)substituted Ph, naphthyl, pyridyl; R5 = H, alkyl, cycloalkyl, etc.; y = 0-2] which bind to the enzyme reverse transcriptase and are modulators, especially inhibitors thereof, and as such

are useful in the treatment of a variety of disorders including those in which the inhibition' of reverse transcriptase is implicated, were prepared and formulated. Disorders of interest include those caused by Human Immunodificiency Virus (HIV) and genetically related retroviruses, such as Acquired Immune Deficiency Syndrome (AIDS). Thus, reacting 5-{[3-ethyl-5-(2-hydroxyethyl)-1H-pyrazol-4-yl]oxy}isophthalonitrile (preparation given) with 4-(methylmercapto)phenol afforded I [R0 = (CH2)2; R1 = 4-(MeS)C6H4; R2 = H; R3 = Et; R4 = 3,5-(NC)2C6H3] which showed IC50 of 2 nM against HIV-1 reverse transcriptase. The pharmaceutical composition comprising the compound I is claimed.

REFERENCE COUNT: THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS 2 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d l14 ibib hitstr abs 2

CAPLUS COPYRIGHT 2005 ACS on STN L14 ANSWER 2 OF 2

ACCESSION NUMBER:

2002:832763 CAPLUS

DOCUMENT NUMBER:

137:337884

TITLE:

Preparation of aryloxy pyrazole derivatives as reverse

transcriptase inhibitors for treating HIV

INVENTOR(S):

Jones, Lyn Howard; Mowbray, Charles Eric; Price, Davis

Anthony Selby, Matthew Duncan Stupple, Paul Anthony Lun to Ther Pfizer Limited, UK; Pfizer Inc.

PATENT ASSIGNEE(S):

SOURCE:

PCT Int. Appl., 306 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. DATE APPLICATION NO. KIND DATE WO 2002-IB1234 20020404 WO 2002085860 Α1 20021031 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,

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             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
             UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
             TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
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     CA 2443449
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                                                                    20020404
     EP 1377556
                          A1
                                20040107
                                            EP 2002-708600
                                                                    20020404
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     EE 200300497
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PRIORITY APPLN. INFO.:
                                            GB 2001-8999
                                                                    20010410
                                            GB 2001-27426
                                                                    20011115
                                            US 2001-289570P
                                                                 Ρ
                                                                    20010508
                                            US 2002-346727P
                                                                 Ρ
                                                                    20020107
                                            WO 2002-IB1234
                                                                    20020404
OTHER SOURCE(S):
                         MARPAT 137:337884
     473921-42-5P, 3-[[5-[2-(4-Cyanophenoxy)ethyl]-3-ethyl-1H-pyrazol-4-
     yl]oxy]-5-fluorobenzonitrile 473921-43-6P, 3-Fluoro-5-[[3-ethyl-
     5-(2-((2-methyl-3-pyridyl)oxy)ethyl)-1H-pyrazol-4-yl]oxy]benzonitrile
     473921-44-7P, 3-Fluoro-5-[[3-ethyl-5-(2-((3-pyridyl)oxy)ethyl)-1H-
     pyrazol-4-yl]oxy]benzonitrile 473921-45-8P, 3-Fluoro-5-[[3-ethyl-
     5-(2-((2-amino-3-pyridyl)oxy)ethyl)-1H-pyrazol-4-yl]oxy]benzonitrile
     RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
     (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
     (Uses)
        (drug candidate; preparation of aryloxy pyrazole derivs. as reverse
        transcriptase inhibitors for treating HIV)
RN
     473921-42-5 CAPLUS
     Benzonitrile, 3-[[5-[2-(4-cyanophenoxy)ethyl]-3-ethyl-1H-pyrazol-4-yl]oxy]-
CN
     5-fluoro- (9CI) (CA INDEX NAME)
```

RN 473921-43-6 CAPLUS

CN Benzonitrile, 3-[[3-ethyl-5-[2-[(2-methyl-3-pyridinyl)oxy]ethyl]-1H-pyrazol-4-yl]oxy]-5-fluoro- (9CI) (CA INDEX NAME)

RN 473921-44-7 CAPLUS

CN Benzonitrile, 3-[[3-ethyl-5-[2-(3-pyridinyloxy)ethyl]-1H-pyrazol-4-yl]oxy]-5-fluoro- (9CI) (CA INDEX NAME)

RN 473921-45-8 CAPLUS

CN Benzonitrile, 3-[[5-[2-[(2-amino-3-pyridinyl)oxy]ethyl]-3-ethyl-1H-pyrazol-4-yl]oxy]-5-fluoro-(9CI) (CA INDEX NAME)

GΙ

$$R^4-O$$
 N
 R^2
 N
 R^2

AB This invention relates to pyrazole derivs. (shown as I; e.g. 2-Amino-6-[[4-(3,5-dichlorophenoxy)-3,5-diethyl-1H-pyrazol-1-yl]methyl]-4(3H)-pyrimidinone) or pharmaceutically acceptable salts, solvates or derivative thereof, wherein R1 to R4 are defined below, and to processes for the preparation thereof, intermediates used in their preparation of, compns. containing

them and the uses of such derivs. The compds. of the present invention bind to the enzyme reverse transcriptase and are modulators, especially inhibitors thereof. As such the compds. of the present invention are useful in the treatment of a variety of disorders including those in which the inhibition of reverse transcriptase is implicated. Disorders of interest include those caused by Human Immunodeficiency Virus (HIV) and genetically related retroviruses, such as Acquired Immune Deficiency Syndrome (AIDS). In tests of inhibition of HIV-1 reverse transcriptase enzyme, the claimed compds. 2-amino-6-[[4-(3,5-dichlorophenoxy)-3,5diethyl-1H-pyrazol-1-yl]methyl]-4(3H)-pyrimidinone, 3,5-dimethyl-4-[[3,5diethyl-1-(2-hydroxyethyl)-1H-pyrazol-4-yl]oxy]benzonitrile and 1-(3-azetidinyl)-4-(3,5-dichlorophenoxy)-3,5-diethyl-1H-pyrazole had IC50 values of 39,000, 3,200 and 248 nM, resp. In I: Rl is H, C1-C6 alkyl, C3-C7 cycloalkyl, Ph, benzyl, halo, -CN, -OR7, -CO2R10, -CONR5R10, R8 or R9. R2 is H, C1-C6 alkyl, C3-C6 alkenyl, C3-C6 alkynyl, C3-C7 cycloalkyl, C3-C7 cycloalkenyl, Ph, benzyl, R8 or R9; or, R1 and R2, when taken together, represent unbranched C3-C4 alkylene. R3 is H, C1-C6 alkyl, C3-C7 cycloalkyl, Ph, benzyl, halo, -CN, -OR7, -CO2R5, -CONR5R5, R8 or R9; R4 is Ph, naphthyl or pyridyl. Definitions of R5 and R7-R10 and addnl. specifications are given in the claims. Included are 283 claimed-compound prepns. and 115 intermediate prepns.

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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CA SUBSCRIBER PRICE	-1.46	-3.65			

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